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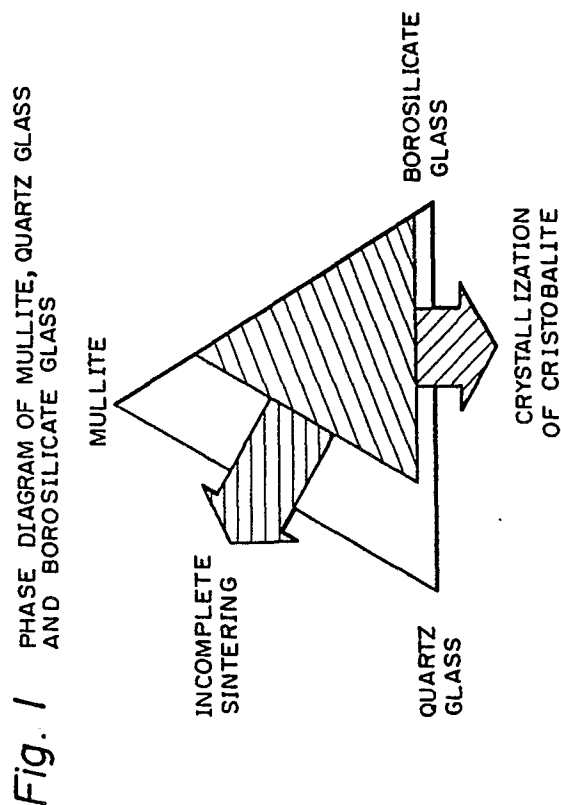
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(54) **Multilayer ceramic copper circuit board.**

(57) A multilayer ceramic copper circuit board was produced by forming a multilayer structure comprising layers of copper-based paste patterns and layers of glass-ceramic. The glass-ceramic consisted of a mixture of 3% to 75% by weight of mullite, 25% to 97% by weight of borosilicate glass having a softening temperature of at least 720 °C, and 0% to 70% by weight of quartz glass, based on the total weight of the glass-ceramic, and blended with a binder composition containing a thermally depolymerizable resin. The multilayer structure was prefired in an inert atmosphere containing water vapor and having a partial pressure of 0.005 to 0.3 atmosphere, at a temperature at which the thermally depolymerizable resin was eliminated, the multilayer structure was then fired in an inert atmosphere containing no water vapor at a temperature below the melting temperature of copper, to sinter the glass-ceramic.

**EP 0 265 340 A3**





DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
Y,D	EP-A-0 163 548 (FUJITSU LTD) * Claims 1-10 * ---	1-6	H 01 L 21/48 H 05 K 1/03
Y,D	EP-A-0 196 035 (E.I. DU PONT DE NEMOURS & CO.) * Claims 1,2 * ---	1-6	
X,D	EP-A-0 196 036 (E.I. DU PONT DE NEMOURS & CO.) * Claims 1,2 * ---	1	
A	EP-A-0 186 550 (FUJITSU LTD) * Claims 1-7 * -----	1-6	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 01 L 21/00 H 05 K 1/00 H 05 K 3/00 C 04 B 35/00 C 03 C 14/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 17-10-1988	Examiner DELPORTE B.P.M.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ..... & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			